Montgomery County Fire and Rescue Service Performance Review

Richard Bowers, Fire Chief June 12, 2009



CountyStat Principles

- Require Data-Driven Performance
- Promote Strategic Governance
- Increase Government Transparency
- Foster a Culture of Accountability



Agenda

- Welcome and Introductions
- Performance Update
- Accompanying Special Topics:
 - Use of Geospatial Analysis to Impact Response Times
 - Promoting Fire Prevention Outreach Efforts
- Wrap-up and Follow-up Items



6/12/2009

Meeting Goal

- Determine the impact of Fire and Rescue Service programs and activities on headline measures and establish new performance expectations and goals
- Review ongoing departmental data collection efforts and discuss future projects that will further incorporate data into the decision making process



Headline Measures

Percent of Residential Structure Fires Confined to the Room of Origin

Response Time to Critical Calls

- Percentage of Advanced Life Support (ALS) Incidents with First Arriving ALS Unit within 8 Minutes
- Percentage of Structure Fires with First Arriving Engine within 6 Minutes

Number of Residential Fire Deaths and Injuries

MCFRS Overtime Efficiency Correlation Rate

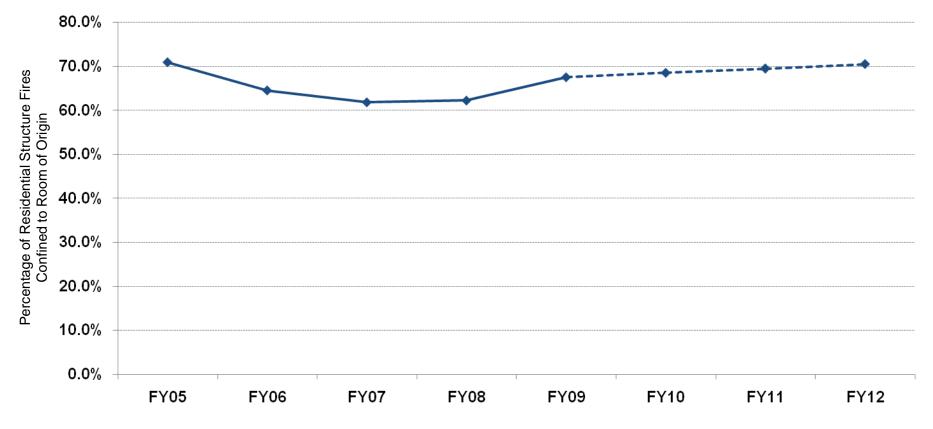
Percentage of Accreditation Related Strategic Recommendations Addressed

Emergency Medical Services Performance - Heart Attack Care

Fire and Injury Prevention Through Community Outreach



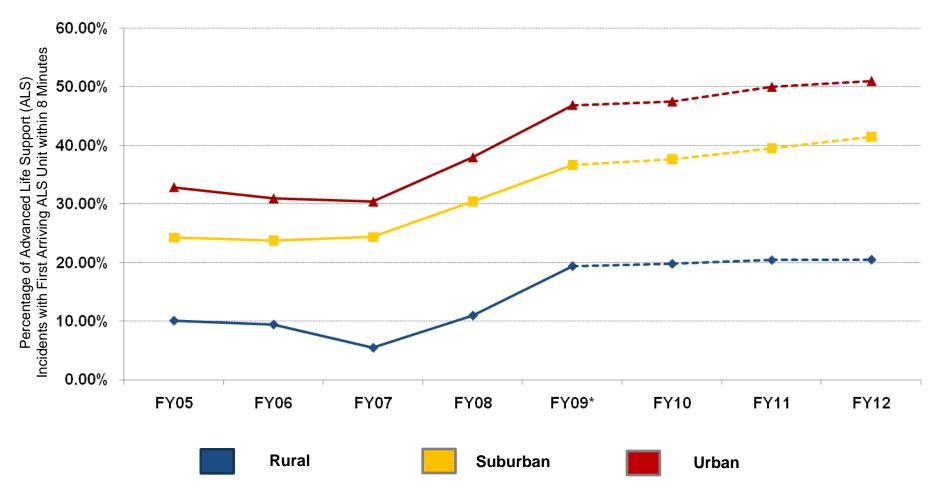
Headline Measure #1: Percent of Residential Structure Fires Confined to the Room of Origin



FY05	FY06	FY07	FY08	FY09*	FY10	FY11	FY12
70.9%	64.5%	61.8%	62%	67.5%	68.5%	69.5%	70.5%



Headline Measure #2: Response Time to Critical Calls: Percentage of Advanced Life Support (ALS) Incidents with First Arriving ALS Unit within 8 Minutes



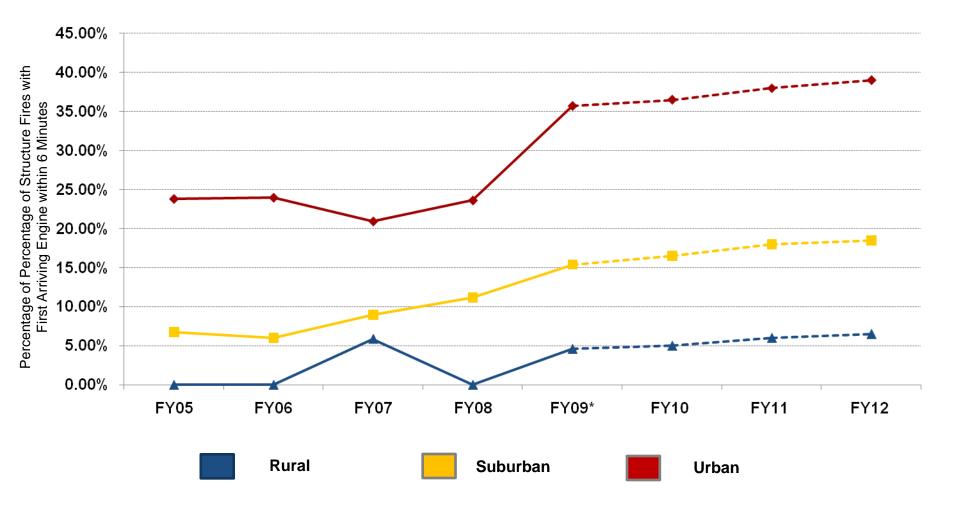


Headline Measure #2: Response Time to Critical Calls: Percentage of Advanced Life Support (ALS) Incidents with First Arriving ALS Unit within 8 Minutes

	FY05	FY06	FY07	FY08	FY09*	FY10	FY11	FY12
Urban	32.91%	31.01%	30.46%	38.00%	46.90%	47.50%	50.00%	51.00%
Suburban	24.33%	23.81%	24.45%	30.50%	36.70%	37.70%	39.50%	41.50%
Rural	10.13%	9.47%	5.52%	11.00%	19.40%	19.80%	20.50%	20.50%



Headline Measure #2: Response Time to Critical Calls: Percentage of Structure Fires with First Arriving Engine within 6 Minutes





*FY09 Current as of 5/31/09

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Headline Measure #2: Response Time to Critical Calls: Percentage of Structure Fires with First Arriving Engine within 6 Minutes

	FY05	FY06	FY07	FY08	FY09*	FY10	FY11	FY12
Urban	23.79%	23.95%	20.92%	23.60%	35.70%	36.50%	38.00%	39.00%
Suburban	6.76%	6.00%	8.99%	11.20%	15.40%	16.50%	18.00%	18.50%
Rural	0.00%	0.00%	5.88%	0.00%	4.60%	5.00%	6.00%	6.50%



MCFRS Use of Geospatial Analysis To Impact Response Time to Critical Calls Impact Headline Measure

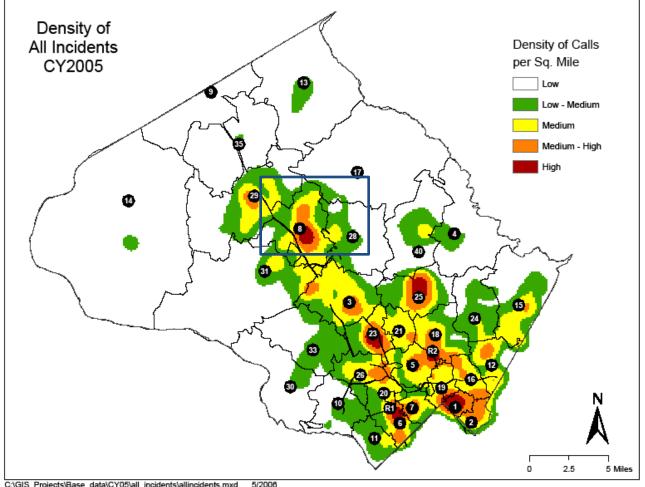
- Geospatial data analysis is a central component of the strategic planning process for MCFRS.
- The use of geo-coded incident data, response times, and service coverage allows MCFRS to align current and future resources in areas with the greatest need in a manner that will achieve the greatest impact.
- The following information is a component of the Phase 4 Study is an ongoing study that will soon lead to a report with recommendations for additional stations and resources to serve the Northeast County.

MCFRS should be able to use geospatial analysis to determine if ongoing facility modernization and construction has an impact on the density of incidents over time and the ability to respond within timeframe goals.

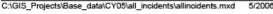




MCFRS Map of Incident Calls in CY05

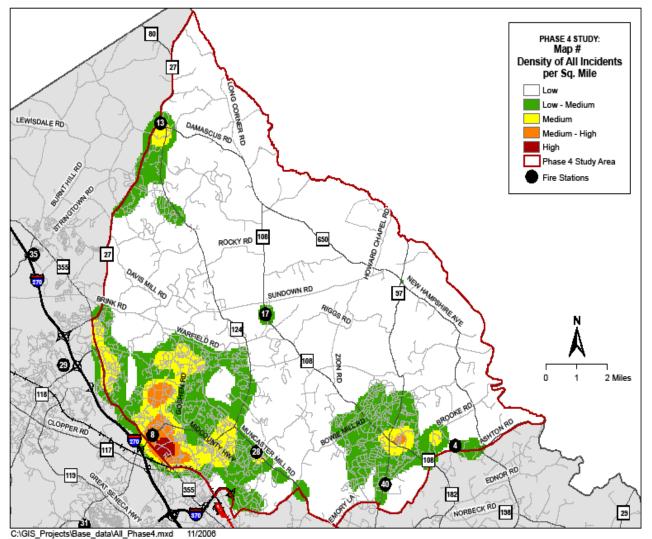


Geospatial analysis demonstrates an area of high concentrations of fire, rescue, and EMS incidents around Stations 8 and 28 in the Northeast part of the County.





MCFRS Map of Incident Density within Northeast County



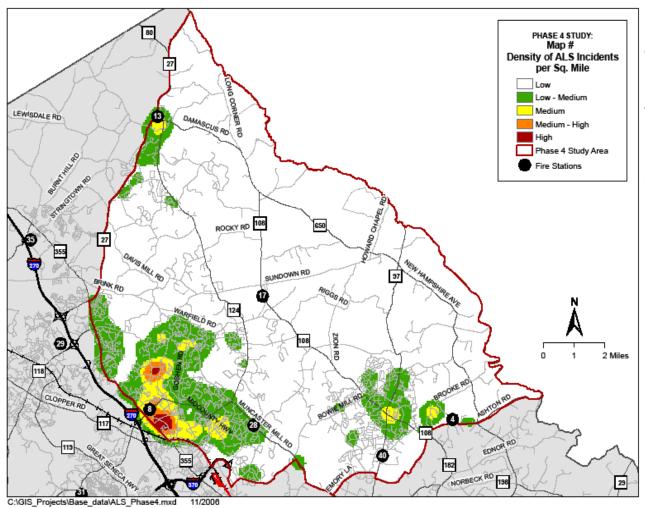
Geospatial analysis demonstrates highest concentrations of fire, rescue, and EMS incidents in Phase 4 Area occur in Gaithersburg, Montgomery Village, Olney, eastern Germantown (future FS34's area), and Damascus.

Large senior housing and healthcare complexes are large drivers of incidents in the Northeast County region.





MCFRS Map of ALS Incident Density within Northeast County

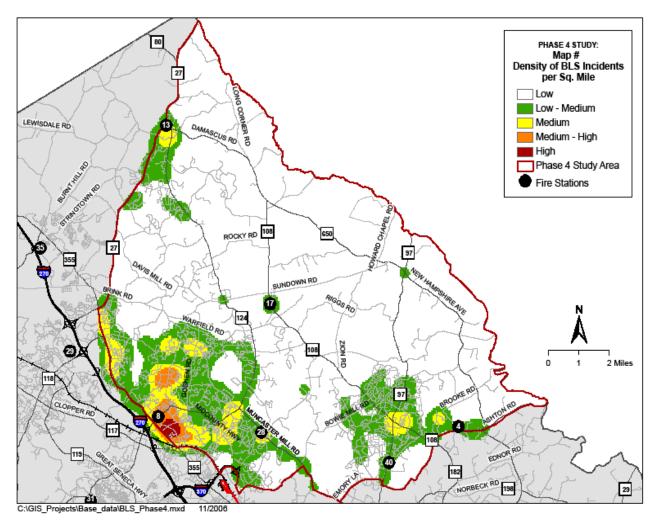


Geospatial analysis demonstrates an area of high concentrations of ALS incidents around Stations 8 and 28 in the Northeast part of the County.





MCFRS Map of BLS Incident Density within Northeast County

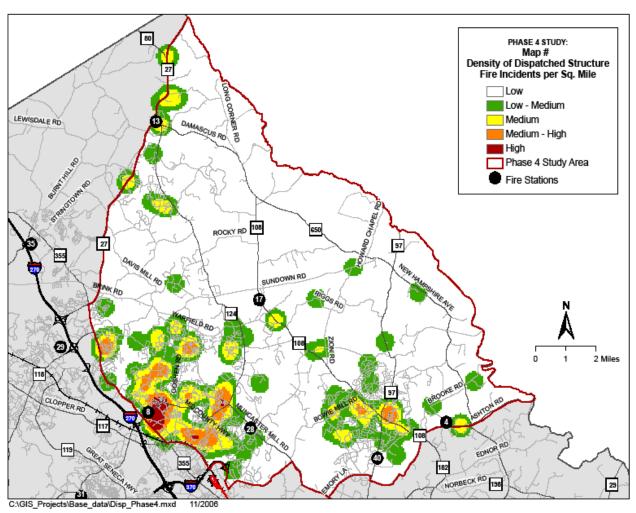


Geospatial analysis demonstrates an area of high concentrations of BLS incidents around Stations 8, 13, 28, and 40 in the Northeast part of the County.





MCFRS Map of Dispatched Structure Fire Incident Density within Northeast County

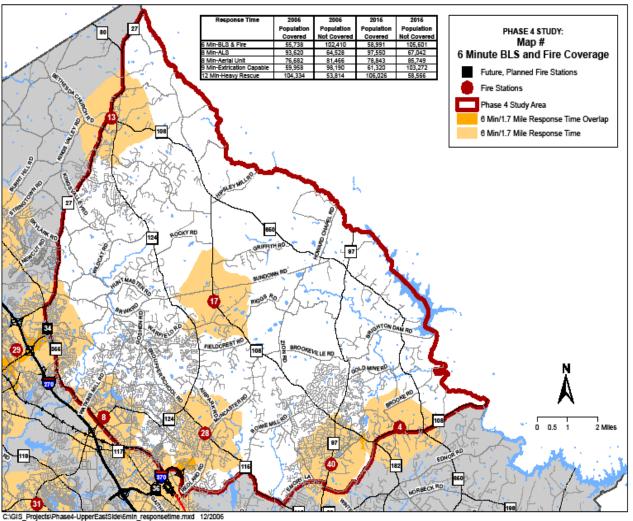


Geospatial analysis demonstrates an area of high concentrations of structure fire incidents around Stations 8, 13, 28, and 40 in the Northeast part of the County.





MCFRS Map of Map of 6-minute Engine and 1st-Responder Response to Fire and BLS Incidents

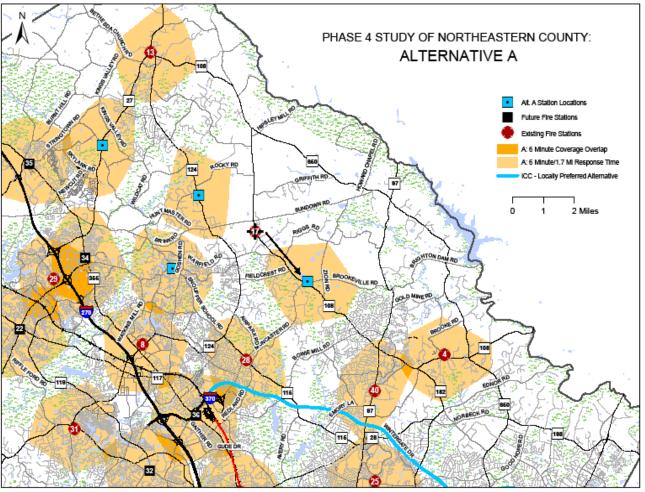


Geospatial analysis demonstrates significant gaps in 6-minute coverage within the Northeast County, including areas having urban and suburban density. Gaps are seen in portions of Montgomery Village, northern Olney, and southern Damascus, plus many rural areas.





Map of Map of Alternative "A" for Future Station Distribution in Northeast County



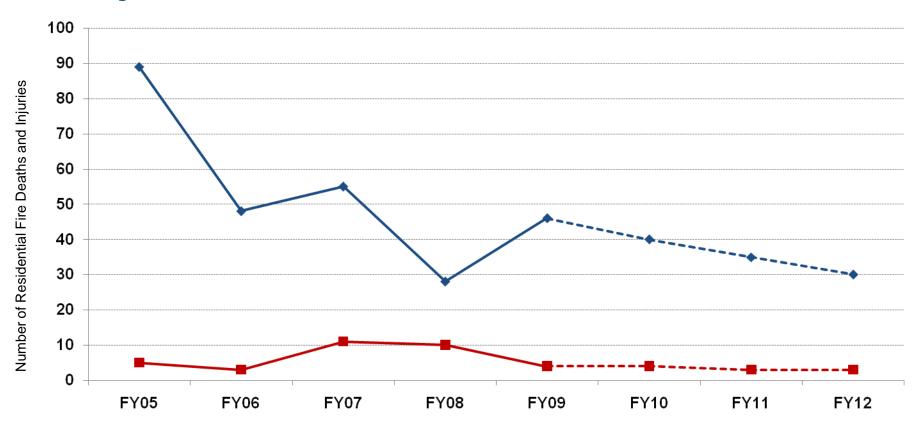
Geospatial analysis demonstrates that several significant gaps in 6-minute coverage within the Northeast County can be addressed effectively by adding three new stations and relocating an existing station (the relocation balances the station distribution in the study area).

C:\GIS_Projects\Phase4-UpperEastSide\UpperEastSide_AlternativeA_ICC.mxd 10/2005





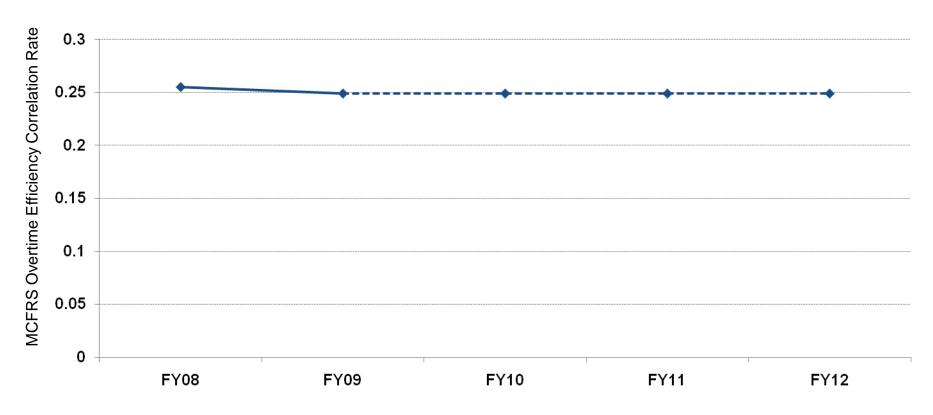
Headline Measure #3: Number of Residential Fire Deaths and Injuries



	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
Injuries	89	48	55	28	46	40	35	30
Deaths	5	3	11	10	4	4	3	3



Headline Measure #4: MCFRS Overtime Efficiency Correlation Rate



FY08	FY09*	FY10	FY11	FY12
0.255	0.249	0.249	0.249	0.249



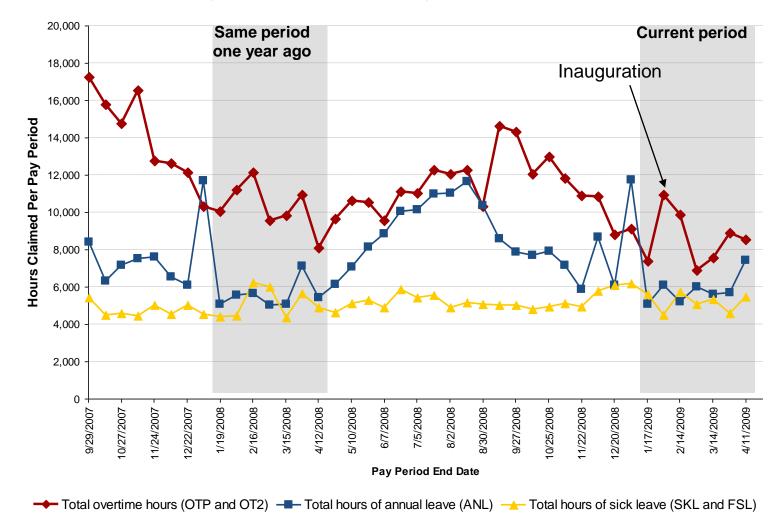
MCFRS Overtime Meeting Review: Quarter-by-Quarter Summary of Overtime Use

Fiscal	FY07-Q4 to FY08-Q3		FY08-Q4	to FY09-Q3	% Change	
Quarter	Hours	\$	Hours	\$	Hours	\$
Quarter 4 4/1 to 6/30	104,582	\$4,674,105	65,481	\$3,149,642	-37.4%	-32.6%
Quarter 1 7/1 to 9/30	108,559	\$5,042,699	82,327	\$4,059,819	-24.2%	-19.5%
Quarter 2 10/1 to 12/31	90,033	\$4,252,638	71,980	\$3,538,729	-20.1%	-16.8%
Quarter 3 1/1 to 3/31	68,531	\$3,273,477	55,355	\$2,777,947	-19.2%	-15.1%
Total	371,705	\$17,242,919	275,142	\$13,526,137	-26.0%	-21.6%



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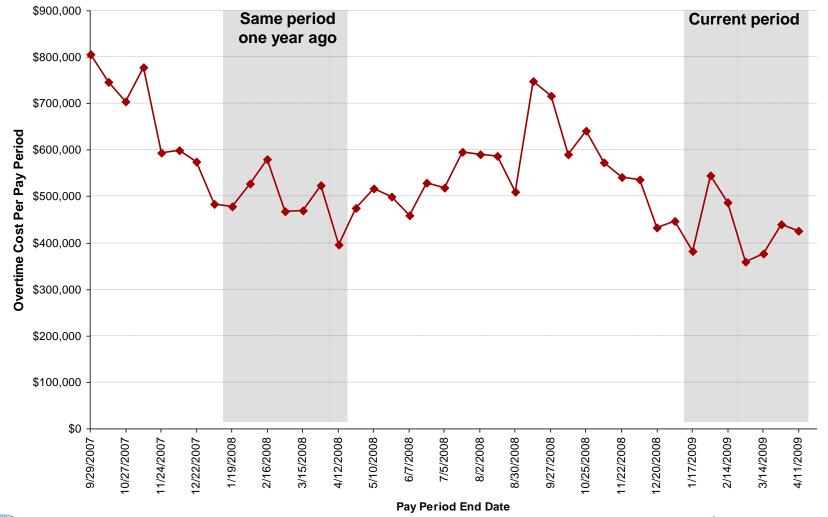
MCFRS Overtime Meeting Review: Total Overtime, Annual Leave, and Sick Leave Hours







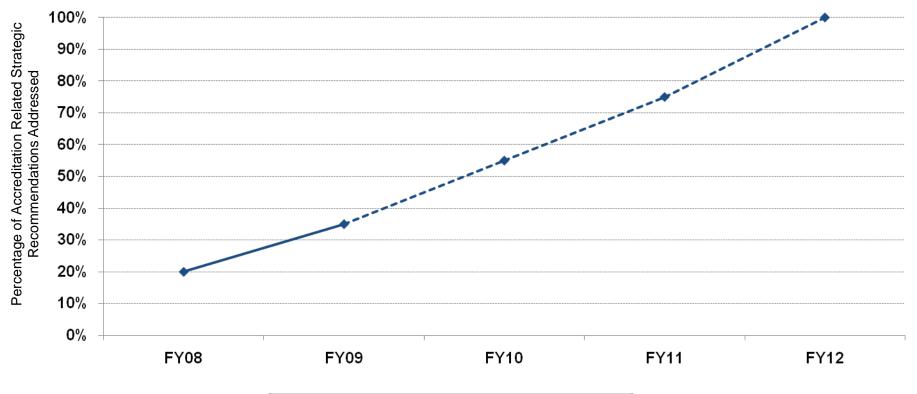
MCFRS Overtime Meeting Review: Total Overtime Cost







Headline Measure #5: Percentage of Accreditation Related Strategic Recommendations Addressed



FY08	FY09*	FY10	FY11	FY12
20%	35%	55%	75%	100%



Headline Measure #6 Under Construction: Emergency Medical Services Performance - Heart Attack Care

Headline Measure Under Construction

- Percentage of "STEMI" patients (those having a myocardial infarction) who are in the cardiac catheterization lab receiving balloon catheterization within 90 minutes for 90% of the STEMI incidents
- This involves joint patient care between MCFRS and the 5 hospitals in Montgomery County that have a cardiac catheterization lab (i.e., Suburban, Holy Cross, Shady Grove, Washington Adventist, and Montgomery General)

MCFRS Cardiac Care Progress

- 301 MCFRS Paramedics trained in basic 12 lead ECG interpretation
- 160 MCFRS Paramedics training in intermediate 12 lead ECG interpretation
- MCFRS recognized as the Maryland Best Practice Education Model for 12 lead ECG instruction

CY08 Incident Data

Critical care transports: 19,800

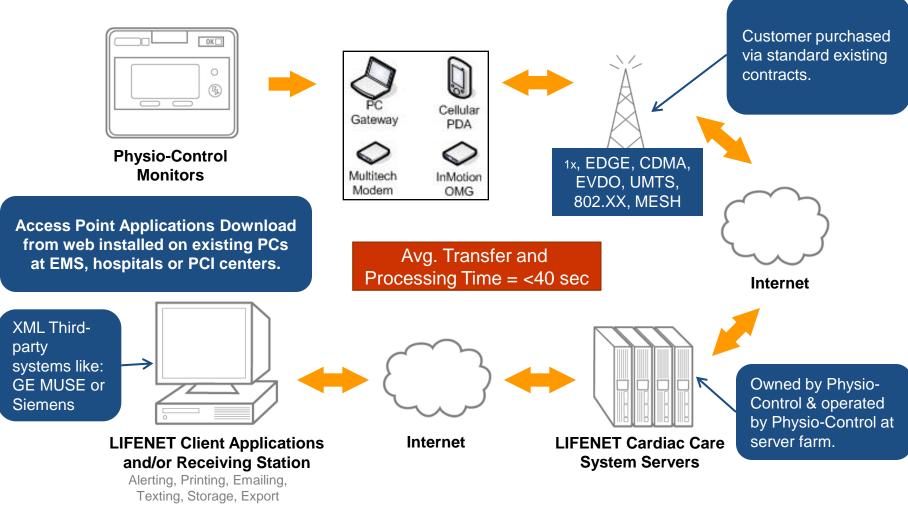
STEMI interventions: 300

Next Steps

- Implementation of Electronic Patient Care Reporting (ePCR) summer 2009
- Enhancement of 12 lead ECG collection via Physio-Control LIFENET12 lead ECG data management system
- Continue education of MCFRS paramedics in 12 lead ECG assessment and interpretation



Headline Measure #6 Under Construction: Emergency Medical Services Performance - Heart Attack Care





6/12/2009

Headline Measure #7 Under Construction: Fire and Injury Prevention Through Community Outreach

- In 2008 and again in 2009 MCFRS conducted two different surveys over the internet to obtain feed back from our residents.
- MCFRS sent out two initial surveys different community Yahoo Groups and through the Regional Service Center lists to recipients that were not randomly selected.
- In the 2009 survey MCFRS used an intern to the Management Leadership program to reach out to diverse groups of people and encountered much resistance with many residents refusing to complete the survey.

2009 Survey: 292 Respondents:

233 (80%) are aware that MCFRS provides public education and awareness on fire and injury prevention 205 (71% are aware that MCFRS evaluates individual homes for proper placement of smoke alarms 215 (74%) had some contact with MCFRS in the last 1 to 5 years

2008 Survey: 419 Respondents:

341 (81%) of the respondents said no when asked if the practiced a home fire drill 110 (26%) of the respondents answered yes to the question of whether there was anyone living in the home over 65 years old 74 (18%) of the respondents answered yes to the questions of whether there was anyone 5 years or younger living in the house

MCFRS is still determining the best way in which to craft a survey that meets the standards of being a random sample, accessible to all county residents, and provide an ongoing method for measuring community outreach efforts.





MCFRS Web-Based Outreach

MCFRS Blog



- Up-to-date seasonal safety information
- Product fire hazards
- MCFRS events and information

MCFRS Blog Talk Radio



- Fire Side Chats
- Information on Ambulance Reimbursement Fee

MCFRS has created a blog that has had 3,263 visitors since October of 2008, which provides seasonal safety tips, product recalls, information about MCFRS operations, radio shows, Twitter, YouTube, Facebook, Twitter, and Yahoo User Groups.





Overview of MCFRS Outreach Data Collection

MCFRS will track all outreach efforts on an ongoing basis for the creation of fire prevention performance sub-measures that track outreach interactions

Home Visit Outreach

Home Visits	22,633
Smoke Alarms Installed	716
Batteries Installed	865

Electronic Newsletter Outreach

Senior Safety Times	994
MCFRS General	1,689

Web-Based Outreach

Internet Outreach Medium	Members	Messages Per Day	Viewed
Café Montgomery YG	1211	24	
East Silver Spring YG	206	3	
Clarksburg Civic Association YG	116	1	
Quince Orchard Estates YG	71	1	
Forest Grove YG	71	1	
Kensington Estates Civic Association YG	183	1	
MC Needs YG	1755	10	
Olney Brookeville Exchange YG	707	20	
Parkwood Residents YG	575	10	
MCFRS Twitter	274		
MCFRS Blogspot			3,263
MCFRS Facebook	1,019		
MCFRS Pub Ed You Tube			2,258
MCFRS Blog Talk Radio (listeners)			3,966



*Data from October 2008 to 5/31/09



Tracking Our Progress

Meeting Goals:

- Determine the impact of MCFRS programs and activities on headline measures and establish new performance expectations and goals
- Review ongoing departmental data collection efforts and discuss future projects that will further incorporate data into the decision making process

How will we measure success

- Updated performance plan is finalized and published to the web
- Ongoing monitoring of performance through Montgomery County Performance Dashboard





Wrap-Up

- Follow-Up Items
- Performance Plan Updating

